

Fossil Energy Environmental Restoration

Program Mission

The objectives of the Fossil Energy (FE) Environmental Restoration activities are to ensure protection of workers, the public, and the environment in performing the mission of the National Energy Technology Laboratory (NETL) at the Morgantown (MGN), West Virginia, Pittsburgh (PGH), Pennsylvania, and Tulsa, Oklahoma sites, and the Albany Research Center (ARC) at Albany, Oregon. Activities include those necessary to protect workers and the public from exposure to hazardous conditions and materials (e.g., fires, carcinogens, asbestos, lead, etc.), identify and correct safety and health hazards, improve workplace monitoring and industrial safety programs, achieve compliance with Federal, state and local environment, safety, and health requirements, including Department of Energy (DOE) initiatives, and implement initiatives related to achieving best-in-class performance. Activities also include environmental protection, and cleanup activities on-site, and at several former off-site research and development locations. Groundwater and soil monitoring/remediation is also required at the NETL and ARC sites to ensure compliance with Federal, state and local requirements.

Performance Indicator

FY 2004 performance measures are listed below that support the overarching goal of making consistent and measurable progress in reducing and eliminating injuries, incidents and environmental releases.

- Continue to implement NETL chiller replacement (to eliminate ozone-depleting substances) activities .
- Upgrade gas alarm systems in NETL buildings.
- Maintain risk management programs and Federal permit compliance status at NETL.
- Conduct remediation activities at Rock Springs and Hoe Creek, WY sites.
- Conduct environmental monitoring and surveillance activities (air, water, wastewater) in support of permit maintenance.
- Conduct ES&H training according to job hazard analyses.
- Complete a series of lead and asbestos abatement actions and remove hazardous materials at ARC.
- Upgrade emergency response and security programs at ARC.
- Continue with equipment/facility upgrades and infrastructure repairs, including facility evaluations/upgrades at ARC.
- Implement specific ES&H plans and programs to achieve objectives and targets of ISO 14001 and OSHA VPP systems.
- Complete lead and asbestos abatement actions at NETL, including Building 921 (PGH) exterior asbestos, and Building 86 (PGH) asbestos and lead removal.
- Complete indoor air quality/ventilation fixes for NETL R&D buildings including indoor air quality fixes in Building 86 (PGH) and small scale fixes in MGN.
- Continue decontamination/decommissioning of selected NETL-PGH R&D buildings.
- Implement new activities to meet waste minimization and energy efficiency goals.
- Implement NETL emergency power systems for ES&H critical operations.
- Maintain programs for purchasing environmentally preferable products and services.
- Reduce sanitary waste from routine operations at ARC.

Funding Profile

(dollars in thousands)

	FY 2002 Comp. Approp.	FY 2003 Request	FY 2004 Base	FY 2004 Request	FY 2004 Request vs. Base	
					\$ Change	% Change
CERCLA Remedial Actions	\$2,449	\$2,000	\$2,000	\$1,910	\$-90	-4.5%
RCRA Remedial Actions	2,125	2,300	2,300	2,052	-248	-10.8%
Other ES&H Actions	5,326	5,415	5,415	5,753	338	6.2%
Total, Fossil Energy Environmental Restoration	\$9,900	\$9,715	\$9,715	\$9,715	\$0	0.0%

Funding by Site

(dollars in thousands)

	FY 2002	FY 2003	FY 2004	\$Change	%Change
All Other	9,900	9,715	9,715	0	0.0%
Total, Fossil Energy Environmental Restoration	\$9,900	\$9,715	\$9,715	\$0	0.0%

Detailed Program Justification

(dollars in thousands)

	FY 2002	FY 2003	FY 2004
CERCLA Remedial Actions	2,449	2,000	1,910
■ Rock Springs Sites Continue second year of full-scale cleanup of Rock Springs sites (~7 year program). <i>Participants include: Army Corps of Engineers.</i> FY 2003 and FY 2002 funding continued cleanup of the Rock Springs sites, with full-scale cleanup beginning in FY 2003. <i>Participants included: Army Corps of Engineers.</i>	800	800	600
■ Hoe Creek Site Continue third year of full-scale cleanup of Hoe Creek site (~7 year program). <i>Participants include: Army Corps of Engineers.</i> FY 2003 and FY 2002 funding continued full-scale cleanup of the Hoe Creek site. <i>Participants included: Army Corps of Engineers.</i>	300	300	310
■ Hannah Site Revegetation Continue Hannah Site revegetation (~10 year program). FY 2003 and FY 2002 funding continued Hannah Site revegetation.	70	70	25

(dollars in thousands)

	FY 2002	FY 2003	FY 2004
■ NETL Preliminary Site Investigations	200	300	445
Implement three additional off-site investigations and remediations related to project closeouts, based on results of risk analyses.			
FY 2003 and FY 2002 funding continued implementation of ne CERCLA site investigations and project closeouts.			
■ NETL Site Remediation	30	30	30
Perform on-site building and soil type remediation assessments at NETL (re-assessment).			
FY 2003 and FY 2002 funding provided for on-site CERCLA-type remediation assessments at NETL.			
■ CERCLA PRP Response Activities	1,049	500	500
Implement CERCLA PRP Response Activities.			
FY 2003 and FY 2002 funding continued implementation of CERCLA PRP Response Activities.			
RCRA Remedial Actions	2,125	2,300	2,052
■ NETL On-Site Remediation	1,355	1,550	1,407
Continue NETL on-site corrective, preventive, and improvement activities such as; lead and asbestos abatement; upgrading chemical handling facilities; waste minimization and pollution prevention activities including managing residual wastes; environmental management plan implementation required for maintenance of ISO 14001 certifications; surface water compliance; and site support contractor RCRA related maintenance activities.			
FY 2003 and FY 2002 funding continued NETL on-site corrective, preventive, and improvement activities such as; lead and asbestos abatement; hazardous material and waste compliance; ; waste minimization and pollution prevention activities including managing residual wastes; environmental management plan implementation required for maintenance of ISO 14001 certifications; surface water compliance; and site support contractor RCRA related maintenance activities.			
■ Albany Research Center RCRA	770	750	645
Continue ARC RCRA cleanup actions including abating lead and asbestos exposures; resolving chemical storage and labeling monitoring soil and groundwater; upgrading ventilation and air pollution control system; and improving air emission management, materials handling, and waste disposal activities.			
FY 2003 and FY 2002 funding continued ARC RCRA cleanup actions including abating lead and asbestos exposures; characterizing and resolving chemical storage and labeling; monitoring soil			

and groundwater; upgrading ventilation and air pollution control system; and improving air emission management, materials handling, and waste disposal activities.

(dollars in thousands)

	FY 2002	FY 2003	FY 2004
Other ES&H Actions	5,326	5,415	5,753
■ Other ES&H Actions at NETL	4,300	4,310	4,535

Maintain regulatory and Integrated Safety Management/ISO 14001 programs (emergency management, occupational medicine and health, safety, environmental management, ergonomics, training, and fire protection) at NETL. Identify safety improvements required to achieve external OSHA-type certifications. Identify and implement safety-related security improvements. Continue to execute environmental objectives and targets under NETL's ISO 14001 programs, including incremental and continued achievement of DOE's pollution prevention and energy leadership goals. Conduct highest priority indoor and CFC-related air quality fixes.

FY 2003 and FY 2002 funding maintained regulatory and Integrated Safety Management/ISO 14001 programs (emergency management, occupational medicine and health, safety, environmental management, ergonomics, training, and fire protection) at NETL. . Continued to execute environmental objectives and targets under NETL's ISO 14001 programs, including incremental and continued achievement of DOE's pollution prevention and energy leadership goals. Conducted highest priority indoor and CFC-related air quality fixes.

■ ES&H Corrective Action at NETL Tulsa Site	15	15	15
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Continue ES&H program activities at NPTO including inspections, emergency management and drills, training, etc. Expand environmental management system to Tulsa site.

FY 2003 and FY 2002 funding continued ES&H program activities at NETL Tulsa site including inspections, emergency management and drills, training, etc.

■ ES&H Corrective Action at ARC	911	990	1,103
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Continue ARC safety and health programs and corrective actions including monitoring and surveillance; and emergency preparedness and security improvements. Upgrade indoor air quality and ventilation systems; medical and industrial hygiene services; fire detection and suppression systems; walking surfaces; personal protective equipment maintenance; facility seismic evaluations; and training.

FY 2003 and FY 2002 funding continued ARC safety and health programs and corrective actions including monitoring and surveillance; and emergency preparedness and security improvements. Upgrade indoor air quality and ventilation systems; medical and industrial hygiene services; fire detection and suppression systems; walking surfaces; personal protective equipment maintenance; facility seismic evaluations; and training.

(dollars in thousands)

	FY 2002	FY 2003	FY 2004
■ Program Support	100	100	100
Fund technical and program management support.			
Total, Fossil Energy Environmental Restoration	9,900	9,715	9,715

Explanation of Funding Changes

	FY 2004 vs. FY 2003 (\$000)
■ Decrease in CERCLA Remedial Actions due to the need to increase funding of Other ES&H Actions including air emission upgrades (e.g., ventilation and indoor air quality deficiencies, emission of toxic substances from R&D projects, and the release of volatile organic compounds from maintenance operations, etc.)	-90
■ Decrease in RCRA Remedial Actions due to the need to increase funding of Other ES&H Actions including upgrading fire protection programs, control of chemical exposures for workers, and enhancing energy management.	-248
■ Increase in Other ES&H Actions due to the need to address outstanding ES&H compliance issues such as those addressed above.	338
Total Funding Change	0